

# The Analyst

## **CURRENT AFFAIRS Handout**

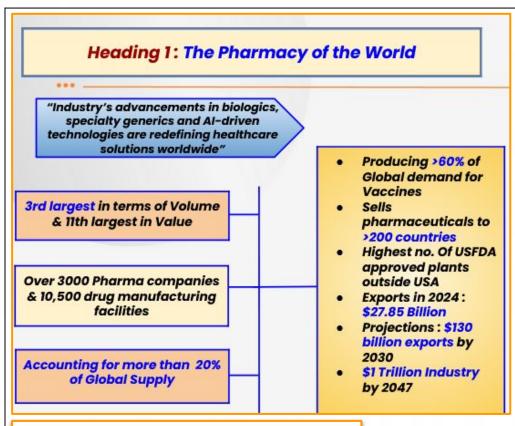
**31st August 2025** 

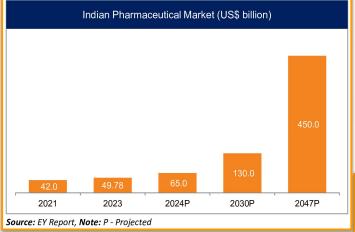


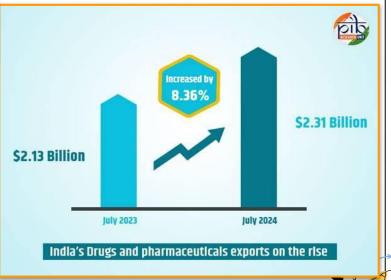
## **BioE3 Policy Push**



<u>CONTEXT</u>: Government has brought <u>BioE3 Policy</u> for development of **Active Pharmaceuticals Ingredients** required for development of key medicines







## **BioE3 Policy Push**



<u>CONTEXT</u>: Government has brought <u>BioE3 Policy</u> for development of **Active Pharmaceuticals Ingredients** required for development of key medicines

#### **Heading 2: Undermining the Potential of World's Pharmacy:**

**Issues with Drugs Cosmetics Act 1940:** 

Setting up responsibilities at multiple channels

**SFDA**: Non - Mandatory to disclose inspection reports

Creeping Corruption:
Easy licensing & approvals

**Shortage of Drug inspectors** 

Penalty for Non Implementation of GMP

TH https://www.thehindu.com

The Indian cough syrups they bought were toxic. Now Gambian parents seek justice

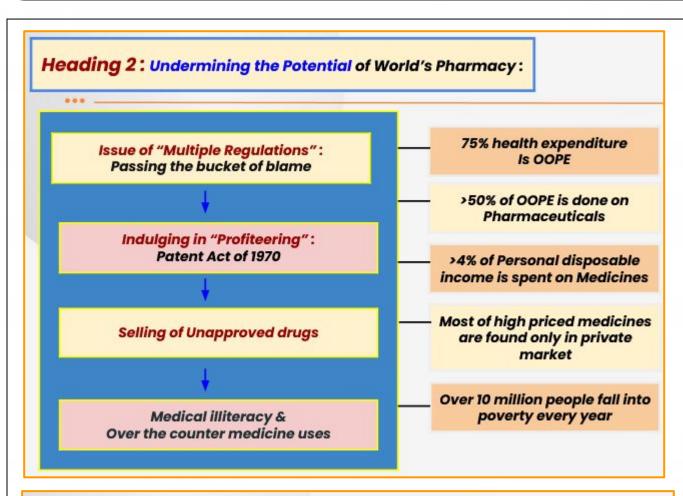
State / UT	inspections	Non- compliant	Prosecutions	Prosecutions (As % of non-compliant cases)
Jam <mark>mu</mark> and Kashmir	27,520	0	0	0%
Jharkhand	8,966	1723	7	0.4%
Uttar Pradesh	907	0	0	0%
Odisha	6,260	876	6	0.6%
Mizoram	1,205	141	4	2.8%
Telangana	16,575	3,853	0	0%
Uttarakhand	1,858	0	0	0%
Andaman and Nicobar	120	0	0	0%
Daman and Diu	407	19	0	0%

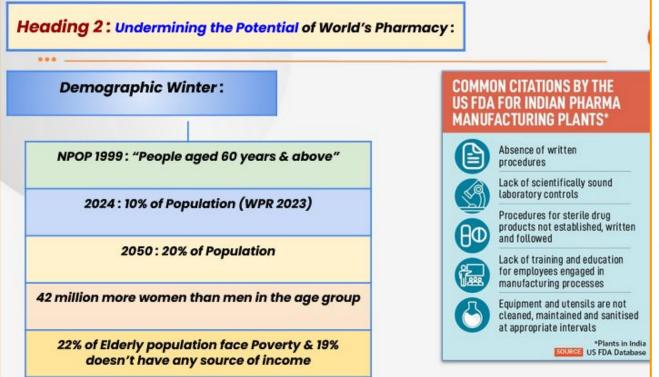
Source: Drug Regulation in India: The Working and Performance of CDSCO and SDRAs report, 2019

## **BioE3 Policy Push**



<u>CONTEXT</u>: Government has brought *BioE3 Policy* for development of *Active Pharmaceuticals Ingredients* required for development of key medicines





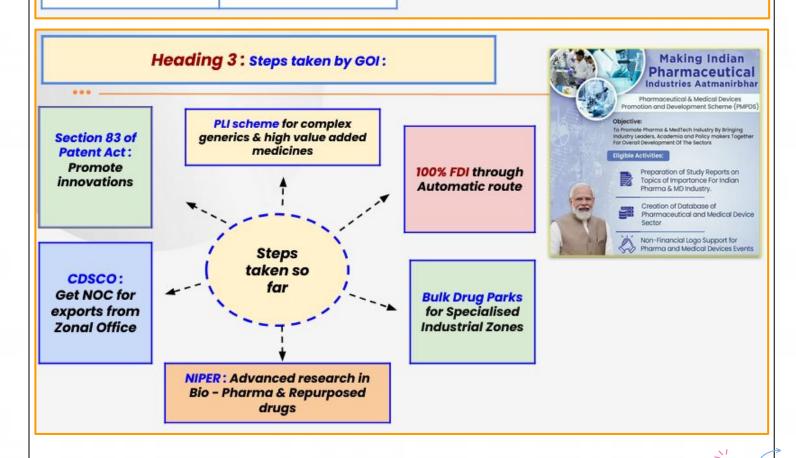
## **BioE3 Policy Push**



31st August 2025

**CONTEXT:** Government has brought **BioE3 Policy** for development of **Active Pharmaceuticals Ingredients** required for development of key medicines

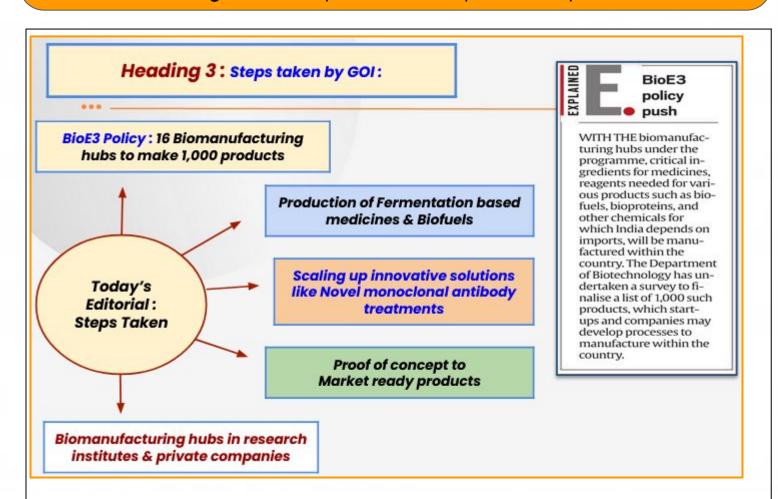
#### Heading 2: Undermining the Potential of World's Pharmacy: **BREAK DOWN** 90% reliance on Essential antibiotics like What is API? > API accounts for Penicillin & Azithromycin around 10% of India's API or active pharmaceutical ₹79,000-crore pharma market ingredient is the main raw material Reason for Reliance chemical used in a medicine ➤ In 2007, they accounted **Impact** for 15-20% of the ₹35,000-cr India imports domestic pharma industry around 80-85% Cost efficient Supply chain ➤ Companies like Sun of API from China vulnerabilities production by Pharma, Lupin and Dr Reddy's China Labs manufacture APIs mostly for captive usage Rising cost & price ➤ Most Indian companies are Government volatility importing API from China at subsidies & strong 15-20% lower cost infrastructure Dependency risks leads to reduced Export High cost, regulatory delays competitiveness & infrastructure gaps in Indian supply chain



## **BioE3 Policy Push**



<u>CONTEXT</u>: Government has brought <u>BioE3 Policy</u> for development of **Active Pharmaceuticals Ingredients** required for development of key medicines



#### **Mains Practise Question**

Question: Question: What are the key challenges being faced by the Indian Pharmaceutical Industry? Provide suggestive measures that shall be adopted to ensure India's status as "Pharmacy of the World".

(15 Marks, 250 words)



# Shanghai Cooperation Organisation



**CONTEXT:** The Prime Minister's much anticipated meeting with **China's President at SCO** comes amid marked improvement in India - China ties against the **US President Trump's tariff war** 





# Shanghai Cooperation Organisation



31st August 2025

<u>CONTEXT</u>: The Prime Minister's much anticipated meeting with *China's President at SCO* comes amid marked improvement in India - China ties against the *US President Trump's* tariff war

#### Issue 1: Trade Deficit: India - China Backdrop: The Prevailing Issues: GTRI: "Overwhelming dominance gives Beijing July 2025 : India's Imports : \$113 Billion potential leverage against India turning supply chains India's Exports: \$14.25 Billion into a tool of pressure in times of political tension" Trade Deficit: \$1.1 Billion in 2004 to \$99 billion in 2024 India depends most on Chinese China's trade deficit = 35% of India's total imports for producing its own exports trade imbalance Foreign value-added (FVA) contribution of each country to Why so serious? India's exports (as a % of total FVA in 34.1 35.5 Others Issue 2: Creation of China exports) in 2019 "Critical dependence": Switzerland 3 3 3,644 4.9 Co 5.2 Germany Antibiotics = 97% supply of Erythromycin South Korea Electronics = 86% of flat panel displays & 80% of Laptops Renewable Energy = 82% of solar cells & 75% of Lithium ion batteries India - China Backdrop: The Prevailing Issues: What has been India's Response? Impact of Rising Trade Deficit: India imposes antidumping duty on six China Targets India's Chinese products Manufacturing Sector, Delays Role of DGTR Machinery Delivery, Pulls IPhone **Engineers** PLI Scheme for 14 sectors Cheaper imports hurts local manufacturers "China + 1" Strategy Pressure on foreign exchange reserves Stricter Quality Standards Currency depreciation pushes cost of imported goods Reduce Incentive to build domestic capacity in key sectors

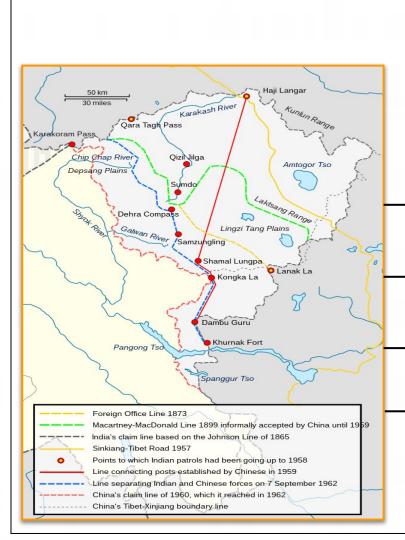
# Shanghai Cooperation Organisation



<u>CONTEXT</u>: The Prime Minister's much anticipated meeting with *China's President at SCO* comes amid marked improvement in India - China ties against the *US President Trump's* tariff war

India - China Backdrop: The Prevailing Issues:

#### The Conflict on the Border:





## China constructing model villages opposite the LAC, say sources

26 May 2023 — China is continuing to expand the network of model villages or 'Xiaokang' (moderately prosperous) villages opposite the Line of Actual ...

Johnson Line v. MacDonald Line

Eye on Strategic 39 Patrolling stations

Salami Slicing Strategy

Quantum jump in presence & Surveillance

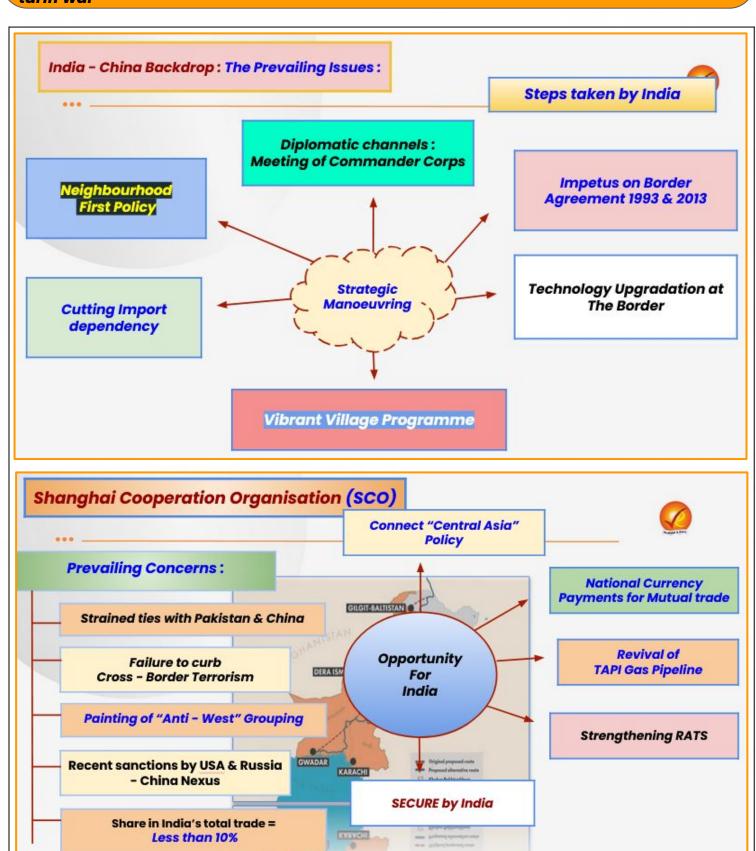


# Shanghai Cooperation Organisation



31st August 2025

<u>CONTEXT</u>: The Prime Minister's much anticipated meeting with *China's President at SCO* comes amid marked improvement in India - China ties against the *US President Trump's* tariff war



## Shanghai Cooperation Organisation



**CONTEXT:** The Prime Minister's much anticipated meeting with **China's President at SCO** comes amid marked improvement in India - China ties against the **US President Trump's tariff war** 

#### **Mains Practise Question**

Question: "India can not afford to Ignore China's Challenge".
In light of this statement, analyse the prevailing challenges in
India- China relations and the opportunity which is offered by
the regional groupings such as SCO to strengthen the
relations.

(15 Marks, 250 Words)



## Kerala to amend Wildlife Protection Law



31st August 2025

**SYLLABUS:** GS 2: Government policies & Interventions

Newspaper: The Hindu, Page No: 6

#### Kerala to amend Wildlife Protection Law: Statistics about India's Wildlife: Context of the News 2.4% of World's 45,000 species land area yet 7-8% of plants & quillise or capture a wild The Hindu Bureau 91,000 animals of all recorded THIRUVANANTHAPURAM animal if it attacks somespecies one and causes serious in-The Kerala government is jury or if such an animal is considering an amendfound in a public place," 172 threatened ment to the Wildlife Protec-Mr. Rajeeve said. 8th most species & 1014 tion Act, 1972, for address-Mr. Rajeeve was addressbiodiverse region protected areas ing specific challenges ing a conference organised faced by the State in huby the Kerala State Legal man-wildlife conflict, Mi-Services Authority and the National Legal Services nister for Law P. Rajeeve said. The amendment un-Authority on Saturday. **IUCN:** India will become der consideration seeks to The decision to propose Global Hotspot for Human authorise the Chief Wildlife the amendment is based Animal Conflict by 2070 on the legal advice that the Warden "to permit any person, by following certain State government is comprocedures, to kill, tranpetent to propose such an

#### Wildlife Protection Amended Act 2022:

#### Chapter 4: Protected Areas:

NP	
• State Government	
NO Alteration of boundary - except on recommendation	
of National Board	

## Kerala to amend Wildlife Protection Law



31st August 2025

SYLLABUS: GS 2: Government policies & Interventions

Newspaper: The Hindu, Page No: 6

#### **Chapter 2: Bodies for protection of Wildlife:**

<sup>2</sup>[5A. Constitution of the National Board for Wild Life.—(1) The Central Government shall, within three months from the date of commencement of the Wild Life (Protection) Amendment Act, 2002 (16 of 2003), constitute the National Board for Wild Lifeconsisting of the following members, namely:—

- (a) the Prime Minister as Chairperson;
- (b) the Minister in-charge of Forests and Wild Life as Vice-Chairperson;
- (c) three members of Parliament of whom two shall be from the House of the People and one from the Council of States;
  - <sup>3</sup>[(d) Member, NITI Aayog in-charge of Environment, Forest and Climate Change;]
- (e) five persons to represent non-governmental organizations to be nominated by the Central Government;
- (f) ten persons to be nominated by the Central Government from amongst eminent conservationists, ecologists and environmentalists;
- (g) the Secretary to the Government of India in-charge of the Ministry or Department of the Central Government dealing with Forests and Wild Life;
  - (h) the Chief of the Army Staff;

#### Wildlife Protection Amended Act 2022:



#### CHAPTER III

#### HUNTING OF WILD ANIMALS

\*[9. Prohibition of hunting.—No person shall hunt any wild animal specified in \*[ Schedules I and II] except as provided under section 11 and section 12.]

- [10. Maintenance of records of wild animals killed or captured.]—Omitted by the Wild Life (Protection) Amendment Act, 1991 (44 of 1991), s. 10 (w.e.f. 2-10-1991).
- Hunting of wild animals to be permitted in certain cases.—(1) Notwithstanding anything
  contained in any other law for the time being in force and subject to the provisions of Chapter IV,—
  - (a) the Chief Wild Life Warden may, if he is satisfied that any wild animal specified in Schedule I has become dangerous to human life or is so disabled or diseased as to be beyond recovery, by Order in writing and stating the reasons therefor, permit any person to hunt such animal or cause such animal to be hunted;

#### 42nd CA 1972:

Protection of Animals & Birds was transferred to "Concurrent List"

Article 254 (2): State Legislature can pass a law on any subject of Concurrent List

Since the amendment concerns a Central Law, Bill would require assent of the President under Article 201



# Kerala to amend Wildlife Protection Law



31st August 2025

**SYLLABUS:** GS 2: Government policies & Interventions

Newspaper: The Hindu, Page No: 6

#### Wildlife Protection Amended Act 2022:

### **Categories of Protection:**

Schedule 1		Schedule 2	Schedule 3	Schedule 4	
•	Blackbuck Asiatic Wild Dog Dhole	<ul> <li>Spotted Deer</li> <li>Nilgai</li> <li>Flying Fox</li> </ul>	<ul> <li>Blue &amp; Red Vanda</li> <li>Pitcher Plant</li> </ul>	Vicugna Vicugna - Camels  Acis Kuhli - Deel	
•	Family of Cat: Cheetah, Lion, Tiger	<ul> <li>Indian</li> <li>Hedgehog</li> </ul>	<ul> <li>Neelakurinji</li> <li>Mishmi Teeta</li> </ul>	• Canis Lupus - Wolf	
•	Musk - Hog - Kashmiri Hangul - Barasingha	<ul> <li>Andaman &amp; Nicobar Rat</li> </ul>	Tree Turmeric	Ursus Arctos-     Brown Bear	
•	Elephants	<ul> <li>Greater &amp; Lesser Flamingo</li> </ul>			
•	Black & Blue Corals				



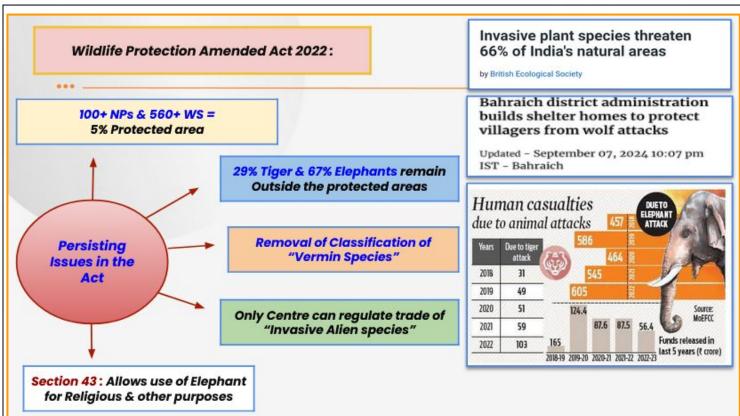
## Kerala to amend Wildlife Protection Law

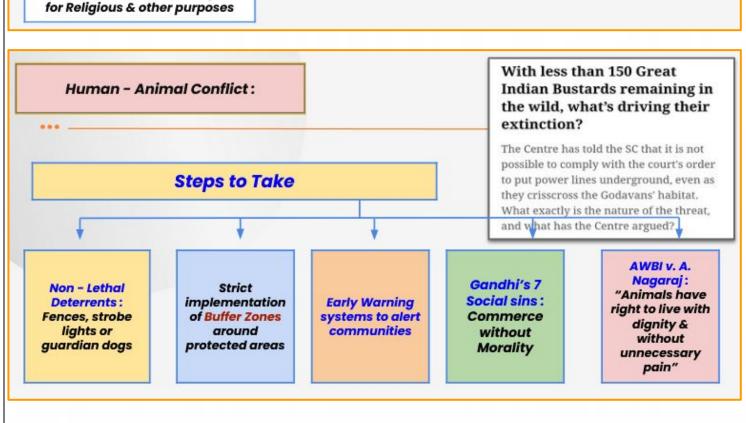


31st August 2025

SYLLABUS: GS 2: Government policies & Interventions

Newspaper: The Hindu, Page No: 6





## Loss of Snow in Gangotri glacier



31st August 2025

**SYLLABUS: GS 3: Environment Conservation** 

Newspaper: The Hindu, Page No: 14

#### Loss of Snow in Gangotri Glacier

#### Context of News:

#### The story so far:

recent study has reconstructed the long-term discharge flow of the Gangotri Glacier System (GGS), the source of the upper Ganga basin which contributes to the waters of the Bhagirathi river in the central Himalayas. In the wake of climate change, glaciologists the world over have been studying the impact of glacier melt.

Snow & ice reserves of Hindu -Kush Himalayas

> Critical source of Water: Indus, Ganga & Brahmaputra

EWE: Altered cryosphere & hydrological cycle

High resolution glacio- Hydrological model: Spatial Process in Hydrology

Findings:

Rainfall runoff, Evapo transpiration & Loss of ice

#### Loss of Snow in Gangotri Glacier

#### Area of Research:

#### Which glaciers make up the GGS?

The study area of the GGS comprises the glaciers Meru (7 km²), Raktavaran (30 km²), Chaturangi (75 km²) and the largest glacier Gangotri (140 km²). The GGS covers an area of 549 square km (km²) spanning an elevation range between 3,767 metres and 7,072 metres. About 48% of the GGS is glacierised. The GGS receives precipitation from the western disturbances during winter (October to April) and from the Indian summer monsoon during summer (May to September). The average seasonal rainfall (May to October) is around 260 mm, with an average mean temperature of 9.4°C for the period 2000-2003.





- NASA Earth Observatory:
   1971 147 glaciers v. 2024 37 glaciers remain
- Snow melt & Glacier melt = 85% of water discharge from Glaciers
- Temperature increased but Snow melt declined?
- Decrease in Precipitation & Snow coverage area





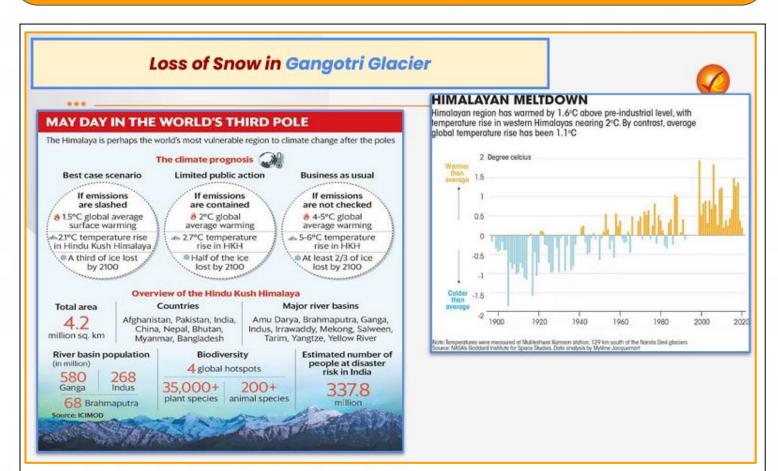
## Loss of Snow in Gangotri glacier

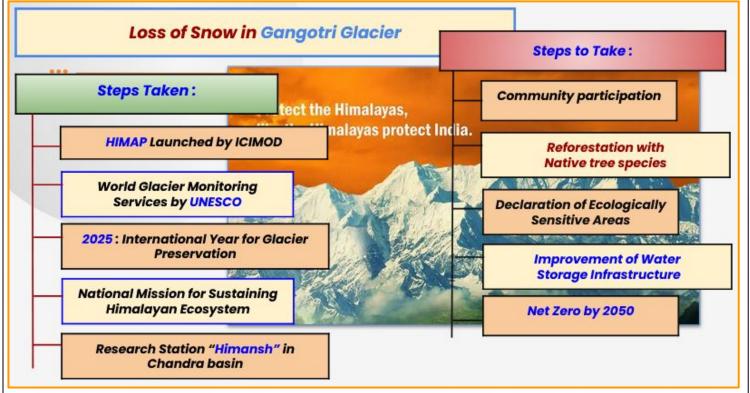


31st August 2025

**SYLLABUS: GS 3: Environment Conservation** 

Newspaper: The Hindu, Page No: 14





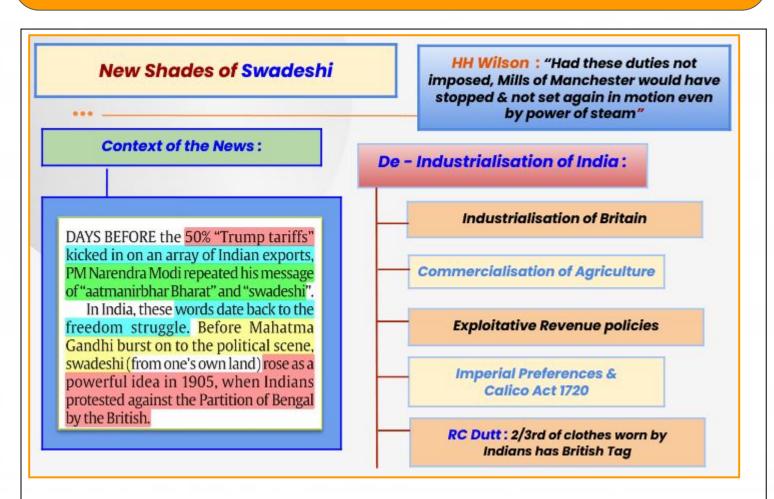
#### **New Shade of Swadeshi**



31st August 2025

SYLLABUS: GS 1: Significant Events from the middle of 18th century to present times

**Newspaper:** The Indian Express, **Page No: 13** 



#### New Shades of Swadeshi Swadeshi Movement: **Economic Critique of British Rule:** Namdhari Movement by Bhagwat Jawahar Mal & Baba Balak Singh Dadabhai Naoroji Poverty & Un - British rule in India & England's debt to India Partition of Bengal by Lord Curzon Economic History of India **RC Dutt** 7th August 1905: Town Hall Meeting: Boycott of Manchester cloth & Liverpool Salt Poverty Problem in India PC Ray Benaras Session 1905: Official declaration of Swadeshi Movement Essays on Indian Economics **MG** Ranade Surat Split 1907 Unhappy India Lala Lajpat Rai Prosperous British India William Digby

### **New Shade of Swadeshi**



SYLLABUS: GS 1: Significant Events from the middle of 18th century to present times

**Newspaper:** The Indian Express, **Page No:13** 

#### **New Shades of Swadeshi**

episode from 1921, when Gandhi was addressing a student gathering in Madurai. Some students complained that khadi was too expensive, Chandra wrote. Gandhi replied that the answer lay not in wearing foreign clothes but wearing fewer clothes, and announced that he was discarding the dhoti and kurta and would now wear only a "langot (loin cloth)". Until his assassination in 1948, he stuck to this vow.

#### Gandhi & the idea of Swadeshi

- Non Cooperation Movement 1920 -
- Charkha: Symbol of resistance against Colonialism
- 1921-22: Import of foreign clothes dropped from ₹1020 million to ₹570 million
- Shashi Tharoor in Era of Darkness:
   62% of clothes sold were made by Indians by 1936



## **AMR by Plastic eating microbes**



31st August 2025

SYLLABUS: Prelims: Biotechnology & Health related issues

Newspaper: The Hindu, Page No: SCIENCE

#### Context of the News:

These particles persist for decades or longer, accumulate in water bodies, and attract other pollutants like heavy metals, antibiotics, and toxic chemicals. They provide sticky surfaces where bacteria thrive, and recent research shows such surfaces can even host microbes carrying antibiotic resistance genes (ARGs). This raises fears that plastic waste may not only choke ecosystems but also help spread antimicrobial resistance (AMR).

#### Issue of Plastic Waste

- Plastic: Non Biodegradable synthetic polymer
- Microplastics (<5 mm) & Nanoplastics (<1 mm)</li>
- Sundarbans Case Study: World's largest mangrove forest = Receive 3 billion microplastics particles every day
- Microbes on Microplastics = Exposed to Antibiotics & Metals
- Enzyme PETase in Ideonella Sakaiensis = Degrade Polyethylene used in bottles
- BUT = Resistant to Antibiotics

#### Antimicrobial Resistance (AMR):

- It occurs when Microbes mutate or adapt in a manner that can render treatments ineffective
- Overuse & misuse of antibiotics by Humans & Animals
- LANCET Study: 39 million estimated deaths by AMR by 2050
- World Bank: \$100 Trillion economic loss

#### India's Plastic Problem

- NITI Aayog: 1.5 Lakh tonnes of garbage daily
- 70 thousand tonnes waste ends up in Natural environment
- Banning of 19 categories of SUP under PWM Rules 2021
- Extended Producer Responsibility under PWM Rules 2024



## **AMR by Plastic eating microbes**



SYLLABUS: Prelims: Biotechnology & Health related issues

Newspaper: The Hindu, Page No: SCIENCE

## Dangerous treasure

The Sundarbans' floating bacterial community has both the genetic tools to degrade plastics and to resist antibiotics

- The Sundarbans' floating bacterial community contains hundreds of genes to degrade many plastic polymers
- Metagenomic sequencing revealed 838 plastic-degrading enzyme hits, with polyethylene glycol degradation genes being most abundant
- Plastic-degrading enzyme abundance peaked during the monsoon, reflecting influx of nutrients, microbes, microplastics from rivers



The Sundarbans' microbial community has already adapted to deal with a flood of plastic waste. ISTOCK PHOTO

- Microbes carrying plasticdegrading genes also frequently possessed antibiotic resistance and metal resistance traits
- Network analysis showed strong associations between plastic-degrading enzymes, antibiotic resistance genes, metal resistance genes
- While offering natural solutions for plastic breakdown, the microbes risk amplifying antimicrobial resistance and threatening public health



## **Purple Revolution**



<u>SYLLABUS</u>: Prelims: Types of Crops Newspaper: The Hindu, Page No: 4

#### **Context of the News:**

## Honey on high

In Kashmir's Pulwama, the CSIR-IIIM is producing India's first mono-floral lavender honey, a kilogram of which sells for up to ₹6,000. Soon, India may join the high-end international lavender honey market



Farmers working on lavender shrubs in Sirhama village, 55 km from Srinagar. IMRAN NISSAR

#### **Production of Lavender:**

- Use of Lavender: Cosmetics, Aromatherapy, Perfume & Food
- Dalwai Committee: Double farmers income
- J & K = High Altitude, Temperate climate & "Karewa" Soil
- Economy = 70% dependent on Agriculture: Apples, Saffron, Almonds

#### Government's Initiatives:

- Aroma Mission in 2016: 30,000 hectares under CSIR Intervention
- Pooling of land & Free Lavender saplings
- Product Diversification: Production of Lavender nectar - based monofloral honey

## **Daily Quiz**



**31st August 2025** 

## Q1. Regarding the Shanghai Cooperation Organisation (SCO), consider the following statements:

- 1. It was established in 2001, and India became a member in 2017.
- 2. Its official languages are English and Chinese.
- 3. The SCO member countries include Belarus and Iran.

## How many of the above statements is/are correct?

- a) Only One
- b) Only Two
- c) All Three
- d) None

#### Answer: b

## Q2. Which of the following species are protected under Schedule I of the Wildlife (Protection) Act, Amendment 2022?

- a) Blackbuck, Asiatic Wild Dog (Dhole), Elephants
- b) Spotted Deer, Nilgai, Flying Fox
- c) Blue & Red Vanda, Pitcher Plant, Neelakurinji
- d) Camels, Deer, Wolf

#### Answer: a

## Q3. Match the following pairs of literary works with their authors:

Works	Authors	
A. Poverty and Un-British Rule in India & England's	1. RC Dutt	
Debt to India	2 2	
B. Economic History of India	2. MG Ranade	
C. Essays on Indian	3. Dadabhai Naoroji	
Economics		
D. Unhappy India	4. Lala Lajpat Rai	

## Select the correct answer using the codes given below.

- a) A-4, B-1, C-3, D-2
- b) A-2, B-3, C-1, D-4
- c) A-3, B-1, C-2, D-4
- d) A-1, B-2, C-3, D-4

#### Answer: c

## Q4. Regarding plastic pollution, consider the following statements:

- 1. Plastics are non-biodegradable synthetic polymers.
- 2. Microplastics are particles less than 5 mm in size.
- 3. Nanoplastics are particles less than 1 mm in size.

## Which of the statements given above is/are correct?

- a) 1 only
- b) 2 and 3 only
- c) 1 and 2 only
- d) 1, 2 and 3

#### Answer: d

## Q5. Regarding glaciers, consider the following statements:

- The year 2027 has been designated as the International Year for Glacier Preservation.
- 2. The World Glacier Monitoring Service functions under UNESCO.

## Which of the above statements is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

#### Answer: b





# **VAJIRAM & RAVI**

## Institute for IAS Examination

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